

VITAMIN C (L-ascorbic-acid)

Material Safety Data Sheet (MSDS)

1. PRODUCT IDENTIFICATION

Product Name: vitamin c
 INCI Name: ascorbic acid
 Synonyms: L-ascorbic acid
 CAS Number: 50-81-7
 EINECS Number: 200-066-2
 Origin: synthetic

Eye Contact: May cause mild irritation.
 Skin Contact: May cause mild irritation.
 Ingestion: Large oral doses may cause gastrointestinal disturbances, especially if chronically ingested

2. PHYSICAL & CHEMICAL PROPERTIES

Melting Point: 192°C (378°F)
 Boiling Point: not determined
 Vapor Pressure: not determined
 Vapor Density: not determined
 Evaporation Rate: not determined
 Density: 1.65 g/cm³ at 20°C
 Solubility in water: soluble
 pH Value: 3 (0.5% solution)
 Appearance & Odor: fine white powder, no odor

8. FIRST AID MEASURES

Eyes: Irrigate eyes with a heavy stream of water for at least 15 to 20 minutes. If irritation persists get medical attention.
 Skin: Wash exposed areas of the body with soap and water.
 Inhalation: Remove from area of exposure. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist.
 Ingestion: If gastrointestinal symptoms develop, consult physician

3. STABILITY & REACTIVITY

Chemical Stability: stable if stored light-protected
 Incompatibility: oxidizing agents, alkali hydroxides, alkalis, iron, copper, sodium salicylate, sodium nitrite, theobromine and methenamine.
 Hazardous Decomposition Products: biodegradable; burning can produce carbon monoxide and carbon dioxide
 Hazardous Polymerisation: will not occur

9. FIRE FIGHTING MEASURES

Flash Point: Not applicable
 Flammability, Danger of Explosion: not flammable or explosive
 Fire Fighting Procedures: Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

4. HANDLING & STORAGE

Avoid contact with eyes. Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Avoid sunlight, freezing or excessive heat. Do not handle or store near an open flame, heat or other sources of ignition. Keep the container tightly closed and in a cool, well-ventilated place.

10. TOXICOLOGICAL INFORMATION

Acute Toxicity: LD50 >11.9 g/kg (oral, rats)
 Skin and Eye Irritation Tests: may be irritant to skin and eyes
 Sensitization: No sensitizing effects known
 Chronic Toxicity: Chronic ingestion of large doses of L-ascorbic acid may cause nausea, diarrhea, urine acidification, crystallization of oxalates and uric acid in the bladder and kidneys, decreased reaction times and psychomotor coordination problems.

5. ACCIDENTAL RELEASE MEASURES

Ventilate area of spill. Wear protective equipment. Pick up spills and place in a suitable container for reclamation or disposal according to all local, state and federal regulations. Do not generate dust.

11. DISPOSAL CONSIDERATIONS

Storage and disposal must be in accordance with applicable local, state & federal disposal regulations. Characterization and compliance with applicable laws are the responsibility solely of the generator.

6. EXPOSURE CONTROLS & PERSONAL PROTECTION

Respiratory Protection: Where exposure likely exceeds acceptable criteria, use NIOSH/OSHA-approved respiratory equipment.
 Protective Clothing: Gloves recommended to prevent skin contact. Safety glasses, goggles, or face shield recommended for eye protection.
 Other Protective Measures: Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

12. TRANSPORT INFORMATION

General: not regarded as hazardous material
 DOT Regulations, Hazard Class: none
 ADR/RIC Code, Hazard Class: none
 Sea Transport IMDG Code, Hazard Class: none
 Air Transport IATA, Hazard Class: none

7. HAZARDS IDENTIFICATION

General: Non hazardous and non combustible.
 Inhalation: Avoid breathing dust. May cause mild irritation to the respiratory tract.

13. DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.

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